



Facsimile Transmission

222 EAST 41ST STREET • NEW YORK, NEW YORK 10017 • (212) 326-3939

Facsimile: (212) 755-7308
ymoon@jonesday.com

RECEIVED
CENTRAL FAX CENTER

MAR 06 2007

March 6, 2007

Please hand deliver the following facsimile to:

Name: **Dr. Ethan Whisenant**
(Art Unit 1634)

Facsimile No.: (571) 273-8300

Company: **United States Patent and Trademark Office**

Number of pages (including this page): 15

Telephone No.: (571) 272-0735

From: Yeah-Sil Moon

Send Copies To:

Direct Telephone No.: (212) 326-3778

JP No.: JP006563

☐ Copies distributed

Operator's Initials

CAM No.: 944575-999014
(11281-014-999)

Re: **REQUEST FOR CORRECTING TYPOGRAPHICAL ERROR OF AN INVENTOR'S NAME**
U.S. Patent Application Serial No. 10/688,272
Filed: October 17, 2003
Title: METHOD FOR DETECTING BASE MUTATION
By: Nam-Keun KIM

NOTICE: This communication is intended to be confidential to the person to whom it is addressed, and it is subject to copyright protection. If you are not the intended recipient or the agent of the intended recipient or if you are unable to deliver this communication to the intended recipient, please do not read, copy or use this communication or show it to any other person, but notify the sender immediately by telephone at the direct telephone number noted above.

Dr. Ethan Whisenant:

Per our conversation today, March 6, 2007, please see the attached request for correcting typographical error, Nam-Kcun KIM in the spelling of inventor, Nam-Keun KIM, to Nam-Keun KIM and evidencing documents. Thank you very much.

Best regards,

Yeah-Sil Moon

Please call us immediately if the facsimile you receive is incomplete or illegible. Please ask for the facsimile operator.

LAI-2840184v2
944575 - 999014

ATLANTA • BEIJING • BRUSSELS • CHICAGO • CLEVELAND • COLUMBUS • DALLAS • FRANKFURT • HONG KONG • HOUSTON
IRVINE • LONDON • LOS ANGELES • MADRID • MILAN • MOSCOW • MUNICH • NEW DELHI • NEW YORK • PARIS • PITTSBURGH
SAN DIEGO • SAN FRANCISCO • SHANGHAI • SILICON VALLEY • SINGAPORE • SYDNEY • TAIPEI • TOKYO • WASHINGTON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED
CENTRAL FAX CENTER

Mar 06 2007

Application of: KIM *et al.*

Confirmation No.: 1815

Application No.: 10/688,272

Group Art Unit: 1634

Filed: October 17, 2003

Examiner: Ethan Whisenant

For: METHOD FOR DETECTING BASE
MUTATIONSAttorney Docket No.: 11281-014-999
(CAM: 944575-999014)REQUEST FOR CORRECTING TYPOGRAPHICAL ERROR
OF AN INVENTOR'S NAMEMail Stop Amendment
Commissioner for Patents
PO BOX 1450
Alexandria, Virginia 22313-1450

Sir:

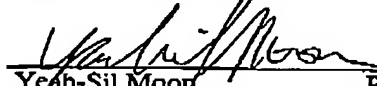
Applicants respectfully request that the typographical error, Nam-Kcun KIM in the spelling of inventor, Nam-Keun KIM, be corrected to Nam-Keun KIM. The notice of allowance has incorrect name Nam-Kcun KIM. As evidenced in the attached declaration, the correct name is Nam-Keun KIM, not Nam-Kcun KIM.

The request for correcting the error was filed in Amendment on November 16, 2005 (see attached pages 2-3). Also submitted herewith are assignment, assignment cover sheet and transmittal letter of filing the application which show the correct name of Nam-Keun KIM. Accordingly, it is respectfully requested that supplemental notice of allowance be issued reflecting the correct spelling of Nam-Keun KIM.

Applicants respectfully request that this document be made of record in the file history of the present application. The Examiner is invited to contact the undersigned with any questions concerning the application.

Respectfully submitted,

Date March 6, 2007


Yeah-Sil Moon
for: Anthony M. InsognaReg. No. 52,042
Reg. No. 35,203JONES DAY
222 East 41st Street
New York, NY 10017-6702
(212) 326-3939

DECLARATION FOR NON-PROVISIONAL PATENT APPLICATION*

RECEIVED
CENTRAL FAX CENTER

MAR 06 2007

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below at 201 et seq. beneath my name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD FOR DETECTING BASE MUTATION

and for which a patent application:

- ☐ is attached hereto and includes amendment(s) filed on (if applicable)
- ☐ was filed in the United States on as Application No. (for declaration not accompanying application) with amendment(s) filed on (if applicable)
- ☐ was filed as PCT International Application No. on and was amended under PCT Article 19 on (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment referred to above

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION				
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
10-2002-0063832	Republic of Korea	18 October 2002	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
10-2003-0061066	Republic of Korea	2 September 2003	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

PROVISIONAL APPLICATION NUMBER	FILING DATE


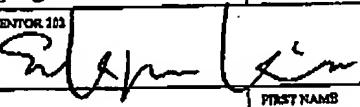
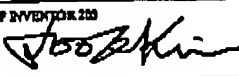

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

NON-PROVISIONAL APPLICATION SERIAL NO.	FILING DATE	STATUS		
		PATENTED	PENDING	ABANDONED

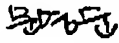
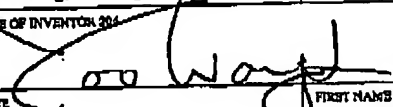
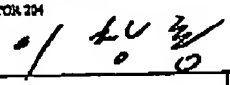


* for use only when the application is assigned to a company, partnership or other organization.

(1)


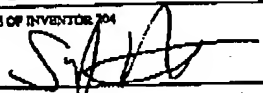
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

2 0 1	FULL NAME OF INVENTOR	LAST NAME KIM	FIRST NAME Nam-Keun	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Gyeonggi-do	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean	
	POST OFFICE ADDRESS	STREET 402-1104 Sibeom Hyundai Apt., Seohyeon-dong, Bundang-gu, Seongnam-si	CITY Gyeonggi-do	STATE OR COUNTRY Republic of Korea	ZIP CODE 463-777
	SIGNATURE OF INVENTOR 201 			DATE 9 October 2003	
2 0 2	FULL NAME OF INVENTOR	LAST NAME KIM	FIRST NAME Suk-Joon	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean	
	POST OFFICE ADDRESS	STREET 103-1101 Byeoksan Apt., #23 Yangpyeong-dong 2-ga, Yeongdeungpo-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea	ZIP CODE 150-102
	SIGNATURE OF INVENTOR 202 			DATE 9 October 2003	
2 0 3	FULL NAME OF INVENTOR	LAST NAME KIM	FIRST NAME Soo-Ok	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean	
	POST OFFICE ADDRESS	STREET 6-601 Kukdong Apt., #192 Garak 2- dong, Songpa-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea	ZIP CODE 138-743
	SIGNATURE OF INVENTOR 203 			DATE 9 October 2003	
2 0 4	FULL NAME OF INVENTOR	LAST NAME KIM	FIRST NAME Eun-Ok	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean	
	POST OFFICE ADDRESS	STREET 21-908 Shindong-a Apt., Banghak 3- dong, Dobong-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea	ZIP CODE 132-739
	SIGNATURE OF INVENTOR 204 			DATE 9 October 2003	

PENNIE & EDMONDS LLP DOCKET NO.

2 0 5	FULL NAME OF INVENTOR	LAST NAME MOON	FIRST NAME Myung-Soon	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean
	POST OFFICE ADDRESS	STREET #551-24 Suyu 6-dong, Gangbuk-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea
	SIGNATURE OF INVENTOR 204 		DATE 9 October 2003	ZIP CODE 142-882
2 0 6	FULL NAME OF INVENTOR	LAST NAME YOO	FIRST NAME Wang-Don	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Gyeonggi-do	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean
	POST OFFICE ADDRESS	STREET 303-804 Jangseong Maeul, #2234 Daehwa-dong, Ilsan-gu, Goyang-si	CITY Gyeonggi-do	STATE OR COUNTRY Republic of Korea
	SIGNATURE OF INVENTOR 204 		DATE 9 October 2003	ZIP CODE 411-707
2 0 7	FULL NAME OF INVENTOR	LAST NAME LEE	FIRST NAME Chang-Hong	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean
	POST OFFICE ADDRESS	STREET 101 Samik Villa 1-cha, #152-1 Dogok-dong, Gangnam-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea
	SIGNATURE OF INVENTOR 204 		DATE 9 October 2003	ZIP CODE 135-270
2 0 8	FULL NAME OF INVENTOR	LAST NAME CHUNG	FIRST NAME Hyon-Jae	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Gyeonggi-do	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean
	POST OFFICE ADDRESS	STREET 101-106 Ssangyong Apt, Dang-dong, Gunpo-si	CITY Gyeonggi-do	STATE OR COUNTRY Republic of Korea
	SIGNATURE OF INVENTOR 204 		DATE 9 October 2003	ZIP CODE 435-010
2 0 9	FULL NAME OF INVENTOR	LAST NAME JEE	FIRST NAME Mi-Sun	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean
	POST OFFICE ADDRESS	STREET 4F., #466-28 Beon-dong, Gangbuk-gu, Seoul	CITY Seoul	STATE OR COUNTRY Republic of Korea
	SIGNATURE OF INVENTOR 204 		DATE 9 October 2003	ZIP CODE 142-868

FENNIE & EDMONDS LLP DOCKET NO. _____

2 1 0	FULL NAME OF INVENTOR	LAST NAME HWANG	FIRST NAME Seong-Gyu	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean	
	POST OFFICE ADDRESS	STREET 134-1601 Olympic Seonsuchon Apt., Bangi-dong, Songpa-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea	ZIP CODE 138-050
	SIGNATURE OF INVENTOR 204 			DATE 9 October 2003	
2 1 1	FULL NAME OF INVENTOR	LAST NAME HONG	FIRST NAME Sun-Pyo	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Seoul	STATE OR FOREIGN COUNTRY Korea	COUNTRY OF CITIZENSHIP Korean	
	POST OFFICE ADDRESS	STREET 5-301 Samik Apt., Bangbae 3-dong, Seocho-gu	CITY Seoul	STATE OR COUNTRY Republic of Korea	ZIP CODE 137-754
	SIGNATURE OF INVENTOR 204 			DATE 9 October 2003	



Express Mail No.: EQ 225 775 373 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED
CENTRAL FAX CENTER

NOV 06 2007

Application of: KIM *et al.*

Confirmation No.: 1815

Application No.: 10/688,272

Group Art Unit: 1634

Filed: October 17, 2003

Examiner: O'Farrell, Thomas John

For: METHOD FOR DETECTING BASE MUTATIONS Attorney Docket No.: 11281-014-999
(CAM: 944575-999014)

AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT

Mail Stop Amendment
Commissioner for Patents
PO BOX 1450
Alexandria, Virginia 22313-1450

Sir/Madam:

In response to the Office Action mailed October 17, 2005 in connection with the above-identified patent application, please consider the following remarks. Although Applicants believe that no fee is due for the filing of this Response, the Commissioner is hereby authorized to charge any fee(s) deemed due to Jones Day Deposit Account No. 503013.

Amendments to the list of inventors begins on page 2 of this paper.

Remarks begin on page 3 of this paper.

CARD: 519882.1

In the list of inventors:

Please correct "Nam-Kcun Kim" to "Nam-Keun Kim".

RECEIVED
CENTRAL FAX CENTER

MAR 06 2007

REMARKSRECEIVED
CENTRAL FAX CENTER

MAR 06 2007

The list of inventors has been changed to correct a typographical error. The first inventor's name has been corrected from "Nam-Kcun Kim" to "Nam-Keun Kim". Pursuant to M.P.E.P. 605.04(b), a new Declaration is not needed.

Claims 1-16 are pending in the application. The Examiner has required restriction of the pending claims under 35 U.S.C. § 121 to one of the following groups:

- I. Claims 1-11, drawn to a method of detecting a mutation; and;
- II. Claims 12-16, drawn to oligonucleotide primers for detection of a mutation.

The Examiner contends that the inventions of Groups I and II are distinct, each from the other.

Applicants hereby provisionally elect, with traverse, to prosecute the invention of Group I, claims 1-11.

Applicants submit that the claims of Groups I and II should be examined together. Restriction is not proper where the inventions are not independent, that is, where there is a disclosed relationship between them. Manual of Patent Examining Procedure (M.P.E.P.) 806. The disclosed relationship between the claimed method and the claimed primers is that the primers have the structure required to accomplish the method, that is, the primers comprise two primer binding sites and a restriction endonuclease restriction site.

The Examiner restricts the claims of Group I and Group II because "the polynucleotide products of group 2 can be used to encode polypeptides, which are not required to practice the methods of group 1." Office action, at page 4. However, M.P.E.P. 806.05(h) allows such restriction only where "the product *as claimed* can be used in a materially different process of using that product." Currently-pending claim 12, the sole independent primer claim, reads as follows:

12. *A primer for analyzing a gene mutation comprising a first primer binding sequence, a restriction enzyme recognition sequence, and a second primer binding sequence, wherein a polynucleotide fragment that is amplified using said primer, and is cleaved by two or more restriction endonucleases that recognize said restriction enzyme recognition sequence, comprises a mutation sequence, and wherein the size of said fragment is from 2 to 32 nucleotides in length.*

The primers of claims 12-16 are claimed as primers, particularly primers that are essential to the method of claims 1-11. They are not claimed as general nucleic acid sequences from which proteins may be expressed. As such, restriction between the primers, as claimed, and the methods of using them, is not appropriate. Moreover, because the

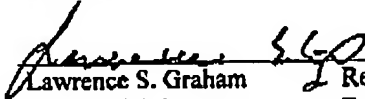
claimed primers are constructed to accomplish the claimed method, a search for, *e.g.*, art disclosing primers having the same structure, would necessarily identify art relating to the method of using those primers. Applicants therefore respectfully request that the election requirement be withdrawn, and that the Examiner examine all claims together.

The Examiner has further required a species election of a first restriction endonuclease and a second restriction endonuclease in claims 6 and 7. Applicants provisionally elect *Fok I* as the first restriction endonuclease and *Bst F5 I* as the second restriction endonuclease. Elected claims readable on these species are claims 1-11. Applicants reserve the right to have claims drawn to the remaining species examined when a generic claim is allowed.

Applicants respectfully request that the present remarks be made of record in the file history of the present application. An early allowance of the application is earnestly requested. The Examiner is invited to contact the undersigned with any questions concerning the application.

Respectfully submitted,

Date November 16, 2005


Lawrence S. Graham
for: Anthony M. Insogna

Reg. No. 49,020
Reg. No. 35,203

JONES DAY
222 East 41st Street
New York, NY 10017-6702
(212) 326-3939

RECEIVED
CENTRAL FAX CENTER

MAR 06 2007

ASSIGNMENT

WHEREAS, WE, Nam-Keun KIM ; Suk-Joon KIM ; Soo-Ok KIM ; Eun-Ok KIM ; Myung-Soon MOON ; Wang-Don YOO ; Chang-Hong LEE ; Hyun-Jae CHUNG ; Mi-Sun JEE ; Seong-Gyu HWANG ; Sun-Pyo HONG , ASSIGNORS, citizens of Republic of Korea, residing at 402-1104 Sibeom Hyundai Apt., Seohyeon-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-777 Republic of Korea ; 103-1101 Byeolsan Apt., #23 Yangpyeong-dong 2-ga, Yeongdeungpo-gu, Seoul 150-102 Republic of Korea ; 6-601 Kukdong Apt., #192 Garak 2-dong, Songpa-gu, Seoul 138-743 Republic of Korea ; 21-908 Shindong-a Apt., Banghak 3-dong, Dobong-gu, Seoul 132-739 Republic of Korea ; #551-24 Suyu 6-dong, Gangbuk-gu, Seoul 142-882 Republic of Korea ; 303-804 Jangseong Maeul, #2234 Dachwa-dong, Ilsan-gu, Goyang-si, Gyeonggi-do 411-707 Republic of Korea ; 101 Samik Villa 1-cha, #152-1 Dogok-dong, Gangnam-gu, Seoul 135-270 Republic of Korea ; 101-106 Ssangyong Apt., Dang-dong, Gunpo-si, Gyeonggi-do 435-010 Republic of Korea ; 4F., #466-28 Beon-dong, Gangbuk-gu, Seoul 142-868 Republic of Korea ; 134-1601 Olympic Seonsuchon Apt., Bangi-dong, Songpa-gu, Seoul 138-050 Republic of Korea ; 5-301 Samik Apt., Bangbae 3-dong, Seocho-gu, Seoul 137-754 Republic of Korea, are the inventors of the invention in METHOD FOR DETECTING BASE MUTATION for which we have executed an application for a Patent of the United States

- ☐ which is executed on ☐ even date herewith or ☐
☐ which is identified by Pennie & Edmonds LLP docket no.
☐ which was filed on , Application No.
☐ I hereby authorize and request my attorney, , of Pennie & Edmonds, LLP, , to insert here in parentheses (Application number, _____ filed _____) the filing date and application number of said application when known.

and WHEREAS, GENEMATRIX INC., a corporation organized and existing under the laws of Republic of Korea, and having its principal offices at 8F. Cancer Research Institute, College of Medical, Seoul National University, 28 Yongon-dong, Chongno-gu, Seoul 110-799 Republic of Korea, ASSIGNEE is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date October 9th, 2003


Nam-Keun KIM

L.S.

Date October 9th, 2003
Suk-Joon KIM

L.S.

Date October 9th, 2003
Soo-Ok KIM

L.S.

Date October 9th, 2003
Eun-Ok KIM

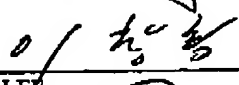
L.S.

Date October 9th, 2003
Myung-Soon MOON

L.S.

Date October 9th, 2003
Wang-Den YOO

L.S.

Date October 9th, 2003
Chang-Hong LEE

L.S.

Date October 9th, 2003
Hyun-Jae CHUNG

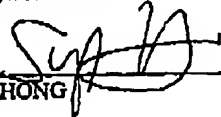
L.S.

Date October 9th, 2003
Mi-Sun JEE

L.S.

Date October 9th, 2003
Seong-Gyu HWANG

L.S.

Date October 9th, 2003
Sun-Pyo HONG

L.S.

MAR 06 2007

Express Mail No. EV 335 857 358 US

RECORDATION FORM COVER SHEET
PATENTS ONLYAttorney Docket Number
11281-014-999Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Please record the attached original documents or copy thereof

1. Name of conveying party(ies): Nam-Keun KIM, Suk-Joon KIM, Soo-Ok KIM, Eun-Ok KIM, Myung-Seon MOON, Wang-Don YOO, Chang-Hong LEE, Hyun-Jae CHUNG, Mi-Sun JEE, Seong-Gyu HWANG, Sun-Pyo HONG Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: <u>Genematrix Inc.</u> Address: <u>8F, Cancer Research Institute</u> <u>College of Medical</u> <u>Seoul National University</u> <u>28 Yongsong-dong, Chongno-gu</u> <u>Seoul 110-799</u> Country (if other than USA): <u>Republic of Korea</u>	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <u>Merger</u> Security Agreement <u>Change of Name</u> Other			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: <u>October 9, 2003</u> A. Parent Application No.(s) <u>To be assigned</u> B. Patent No.(s) <u>To be assigned</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: PENNIE & EDMONDS LLP 1155 Avenue of the Americas New York, New York 10036-2711		6. Number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41): <u>\$ 40.00</u> Please charge to the deposit account listed in Section 8. 8. Deposit account number: <u>16-1150</u>	
DO NOT USE THIS SPACE			
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> For: Anthony M. Insogna 35,203 By: Lawrence S. Graham 49,020 Name of Person Signing Reg. No. <u>Lawrence S. Graham</u> Signature <u>October 17, 2003</u> Date Total number of pages including cover sheet: <u>3</u>			

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

NY2: 1473057.1

Please type a plus (+) inside this box

+

PTO/SB/05 (03-01)

Approved for use through 10/31/2002, OMB 0651-0032
 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.33(b))</i>	Attorney Docket No.	11281-014-999	Total Pages	64
	First Named Inventor or Application Identifier			
	Nam-Keun KIM			
	Express Mail Label No.	EV 335 857 358 US		

APPLICATION ELEMENTS <i>See MPEP chapters 600 concerning utility patent application contents.</i>	Address to: Commissioner for Patents P.O. Box 1450 Mail Stop PATENT APPLICATION Alexandria, VA 22313-1450
---	---

1. ☒ Fee Transmittal Form [Total Pages 2]
(Submit an original, and a duplicate for fee processing)
2. ☒ Applicant claims Small Entity status, see 37 C.F.R. § 1.27
3. ☒ Specification [Total Pages 35]
(preferred arrangement set forth below, MPEP 1503.01)
- Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R&D
 - Reference to Microfiche Appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description of the invention (including drawings, if filed)
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 USC 113) [Total Sheets 9]
5. ☒ Oath or Declaration [Total Sheets 4]
- a. ☒ Newly executed (fax copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ DELETION OF INVENTOR(S)
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. ☒ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☒ Computer Readable Form (CRF)
 - b. ☒ Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☒ paper
 - c. ☒ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(i). Applicant must attach form PTO/SB/35 or it's equivalent
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: filed

Prior application information:

Examiner:

Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS☒ Customer Number

20583

Insert Customer No.

or ☐ Correspondence address below

NAME			
ADDRESS			
CITY	STATE	ZIP CODE	
COUNTRY	TELEPHONE	FAX	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NY2: 1473030.1

Express Mail No. EV 335 857 358 US

PENNIE & EDMONDS LLP
 COUNSELORS AT LAW
 1155 Avenue of the Americas
 New York, New York 10036-2711

ATTORNEY DOCKET NO. 11281-014-999

Date: October 17, 2003

Commissioner for Patents
 P.O. Box 1450
 Mail Stop PATENT APPLICATION
 Alexandria, VA 22313-1450

Sir:

The following utility patent application is enclosed for filing:

Applicant(s): Nam-Keun KIM et al. Executed on: October 17, 2003
 Title of Invention: METHOD FOR DETECTING BASE MUTATION

PATENT APPLICATION FEE VALUE

TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE	FEE
Total Claims	16	- 20	0	\$18.00 each	\$ 0
Independent	3	- 3	0	\$86.00 each	\$ 0
Minimum Fee					\$ 770
Multiple Dependency Fee					\$ 0
If Applicable (\$290.00)					\$ 0
Total					\$ 770
Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern					\$ 385
Total Filing Fee					\$ 385

☐ DO NOT PUBLISH. I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

☒ Priority of Korean application no. 10-2002-0063832 filed on October 18, 2002, and Korean application no. 10-2003-0061066, filed September 2, 2003 are claimed under 35 U.S.C. § 119.

☐ The certified copy of the priority application has been filed in application no. filed on .

Please charge the required fee to Pennie & Edmonds LLP Deposit Account 16-1150. A copy of this sheet is enclosed.

Respectfully submitted,

Lawrence S. Graham 35,203
 For: Anthony M. Insogna Reg No.
 By: Lawrence S. Graham 49,020
 PENNIE & EDMONDS LLP

Enclosure

This form is not for use with continuation, divisional, re-issu, design or plant patent applications.

NY2: 1473006.1